

510(k) Summary

MAR - 5 2010

This summary of 510(k) safety and effectiveness information is provided in accordance with the requirements of SMDA 1990 and 21 CFR 807.92(c).

The assigned 510(k) number is: K092907

1. 510(k) Owner:

Shantou Institute of Ultrasonic Instruments Co., Ltd. (SIUI)

77 Jinsha Road, Shantou, Guangdong 515041, China

Tel: 86-754-88250150

Fax: 86-754-88251499

Contact Person:

Flower Cai

Shantou Institute of Ultrasonic Instruments Co., Ltd.

77 Jinsha Road, Shantou, Guangdong 515041, China

Date Prepared: February 4, 2010

2. Device/Trade Name:

CTS-8800 Digital Ultrasound Imaging System

Classification Name:

Regulatory Class: II

Ultrasonic Pulsed Doppler Imaging System 90-IYN (per 21 CFR 892.1550)

Ultrasonic Pulsed Echo Imaging System 90-IYO (per 21 CFR 892.1560)

Diagnostic Ultrasound Transducer 90-ITX (per 21 CFR 892.1570)

3. Predicate Device:

The subject device is substantially equivalent to the device currently having FDA 510(k) clearance Ultrasonix Ergosonix 500 Ultrasound Scanner (K042326) with respect to intended use, principles of operation and technological characteristics.

4. Device Description:

The SIUI CTS-8800 is a Digital Ultrasound Imaging System capable of the following operating modes: 2D (B mode), M, Doppler (PWD mode), Color (CFM mode) and 3D. The system is designed for use in linear, convex, phased array and 3D scanning modes and supports linear, convex, phased array and 3D transducers. The system has cine review, image zoom, measurements and calculations, image storage and review, printing and recording capabilities.

5. Intended Use:

The device is intended for ultrasonic pulsed echo imaging and measurement for abdominal, pediatric, small organs, musculo-skeletal, cardiac and peripheral vascular applications.

6. Safety Considerations:

The CTS-8800 Digital Ultrasound Imaging System has been tested per the FDA Guidance document "Information for Manufacturers Seeking Marketing Clearance of Diagnostic Ultrasound Systems and Transducers" issued in September 2008. The acoustic output is measured and calculated per NEMA UD 2 Acoustic Output Measurement Standard for Diagnostic Ultrasound Equipment: 2004. The device conforms to applicable medical device safety standards, such as IEC 60601-1, ISO10993-5 and ISO 10993-10.

7. Conclusion:

The conclusions drawn from testing of the CTS-8800 Digital Ultrasound Imaging System demonstrates that the device is as safe and effective as the legally marketed predicate device.



APR - 1 2010

Food and Drug Administration
10903 New Hampshire Avenue
Document Control Room -WO66-G609
Silver Spring, MD 20993-0002

Shantou Institute of Ultrasonic Instruments Co., Ltd. (SIUI)
% Mr. Bob Leiker
QRS Representative
Quality and Regulatory Services, Inc.
7263 Cronin Circle
DUBLIN CA 94568

Re: K092907

Trade/Device Name: CTS-8800 Digital Ultrasound Imaging System
Regulation Number: 21 CFR 892.1550
Regulation Name: Ultrasonic pulsed doppler imaging system
Regulatory Class: II
Product Code: IYN, IYO, and ITX
Dated: February 4, 2010
Received: February 16, 2010

Dear Mr. Leiker:

This letter corrects our substantially equivalent letter of March 5, 2010.

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and we have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

This determination of substantial equivalence applies to the following transducers intended for use with the CTS-8800 Digital Ultrasound Imaging System, as described in your premarket notification:

Transducer Model Number

Convex Array C3L60G

Linear Array L7L38G

Convex Array 4DL40G

Phased Array P3F14G

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 895. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus permits your device to proceed to market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please go to <http://www.fda.gov/AboutFDA/CentersOffices/CDRH/CDRHOffices/ucm115809.htm> for the Center for Devices and Radiological Health's (CDRH's) Office of Compliance. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to <http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm> for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

If you have any questions regarding the content of this letter, please contact Shahram Vaezy at (301) 796-6242.

Sincerely yours,

A handwritten signature in blue ink, appearing to read "Donald St. Pierre", is written over a horizontal line.

Donald St. Pierre
Acting Director
Division of Radiological Devices
Office of In Vitro Diagnostic Device
Evaluation and Safety
Center for Devices and Radiological Health

Enclosure(s)

SIUI CTS-8800
Digital Ultrasound Imaging System

Indications for Use Statement

510(k) Number (if known): K092907

Device Name:

CTS-8800 Digital Ultrasound Imaging System with

Convex Array Transducer C3L60G

Linear Array Transducer L7L38G

Convex Array Transducer 4DL40G

Phased Array Transducer P3F14G

Indications for Use:

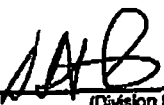
Diagnostic ultrasonic imaging for abdominal, pediatric, small organ, musculo-skeletal, cardiac, peripheral vascular applications in B, M, PWD, Color Doppler and 3D imaging modes.

Prescription Use

(Part 21 CFR 801 Subpart D)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of In Vitro Diagnostic Devices (OIVD)


(Division Sign-Off)
Division of Radiological Devices
Office of In Vitro Diagnostic Device Evaluation and Safety
510K K092907

SIUI CTS-8800
Digital Ultrasound Imaging System

Diagnostic Ultrasound Indications for Use Form

3.1 System Indications for Use Form System: CTS-8800

Clinical Application		Mode of Operation							Other* (Specify)
General (Track 1 Only)	Specific (Tracks 1 & 3)	B	M	PWD	CWD	Color Doppler	Combined (Specify)	O: (S)	
Ophthalmic	Ophthalmic								
Fetal Imaging & Other	Fetal	N	N						N
	Abdominal	N	N	N		N			N
	Intra-operative (Specify)								
	Intra-operative (Neuro)								
	Laparoscopic								
	Pediatric	N	N	N		N			
	Small Organ (Specify)	N	N	N		N			
	Neonatal Cephalic								
	Adult Cephalic								
	Trans-rectal								
	Trans-vaginal								
	Trans-urethral								
	Trans-esoph. (non-Card.)								
	Musculo-skeletal (Conventional)	N	N	N		N			
	Musculo-skeletal (Superficial)	N	N	N		N			
	Intravascular								
	Other (Specify)	N	N	N		N			N
Cardiac	Cardiac Adult	N	N	N		N			
	Cardiac Pediatric	N	N	N		N			
	Intravascular (Cardiac)								
	Trans-esoph. (Cardiac)								
	Intra-cardiac								
	Other (Specify)								
Peripheral Vessel	Peripheral vessel	N	N	N		N			
	Other (Specify)								

N = new indication; P = previously cleared by FDA; E = added under this appendix

* Other modes of operation include: 3-D Imaging:

Additional Comments: Other uses include: Prostate, Kidney, Uterus, Ovary

Small organs include: Thyroid, Testes, Breast

Prescription Use (Per 21 CFR 801.109)



(Division Sign-Off)

Division of Radiological Devices

Office of In Vitro Diagnostic Device Evaluation and Safety

510K

5092907

SIUI CTS-8800
Digital Ultrasound Imaging System


Diagnostic Ultrasound Indications for Use Form

3.2 Transducer Indications for Use Form Transducer: Convex Array C3L60G

Clinical Application		Mode of Operation							Other*
General (Track 1 Only)	Specific (Tracks 1 & 3)	B	M	PWD	CWD	Color Doppler	Combined (Specify)	(Specify)	
Ophthalmic	Ophthalmic								
Fetal Imaging & Other	Fetal	N	N						
	Abdominal	N	N	N		N			
	Intra-operative (Specify)								
	Intra-operative (Neuro)								
	Laparoscopic								
	Pediatric								
	Small Organ (Specify)								
	Neonatal Cephalic								
	Adult Cephalic								
	Trans-rectal								
	Trans-vaginal								
	Trans-urethral								
	Trans-esoph. (non-Card.)								
	Musculo-skeletal (Conventional)								
	Musculo-skeletal (Superficial)								
	Intravascular								
	Other (Specify)	N	N	N		N			
Cardiac	Cardiac Adult								
	Cardiac Pediatric								
	Intravascular (Cardiac)								
	Trans-esoph. (Cardiac)								
	Intra-cardiac								
	Other (Specify)								
Peripheral Vessel	Peripheral vessel								
	Other (Specify)								

N = new indication; P = previously cleared by FDA; E = added under this appendix
Additional Comments: Other uses include: Prostate, Kidney, Uterus, Ovary

Prescription Use (Per 21 CFR 801.109)


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SIUI CTS-8800
Digital Ultrasound Imaging System


Diagnostic Ultrasound Indications for Use Form

3.3 Transducer Indications for Use Form Transducer: Linear Array L7L38G

Clinical Application		Mode of Operation						
General (Track 1 Only)	Specific (Tracks 1 & 3)	B	M	PWD	CWD	Color Doppler	Combined (Specify)	Or (Specify)
Ophthalmic	Ophthalmic							
Fetal Imaging & Other	Fetal							
	Abdominal							
	Intra-operative (Specify)							
	Intra-operative (Neuro)							
	Laparoscopic							
	Pediatric	N	N	N		N		
	Small Organ (Specify)	N	N	N		N		
	Neonatal Cephalic							
	Adult Cephalic							
	Trans-rectal							
	Trans-vaginal							
	Trans-urethral							
	Trans-esoph. (non-Card.)							
	Musculo-skeletal (Conventional)	N	N	N		N		
	Musculo-skeletal (Superficial)	N	N	N		N		
	Intravascular							
	Other (Specify)							
Cardiac	Cardiac Adult							
	Cardiac Pediatric							
	Intravascular (Cardiac)							
	Trans-esoph. (Cardiac)							
	Intra-cardiac							
	Other (Specify)							
Peripheral Vessel	Peripheral vessel	N	N	N		N		
	Other (Specify)							

N = new indication; P = previously cleared by FDA; E = added under this appendix
Additional Comments: Small organs include: Thyroid, Testes, Breast

Prescription Use (Per 21 CFR 801.109)


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Office of In Vitro Diagnostic Device Evaluation and Safety
510K 1092907

SIUI CTS-8800
Digital Ultrasound Imaging System

Diagnostic Ultrasound Indications for Use Form

3.4 Transducer Indications for Use Form Transducer: Convex Array 4DL40G

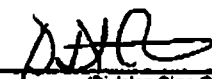
Clinical Application		Mode of Operation							Other (Specify)
General (Track 1 Only)	Specific (Tracks 1 & 3)	B	M	PWD	CWD	Color Doppler	Combined (Specify)		
Ophthalmic	Ophthalmic								
Fetal Imaging & Other	Fetal		N						N
	Abdominal		N						N
	Intra-operative (Specify)								
	Intra-operative (Neuro)								
	Laparoscopic								
	Pediatric								
	Small Organ (Specify)								
	Neonatal Cephalic								
	Adult Cephalic								
	Trans-rectal								
	Trans-vaginal								
	Trans-urethral								
	Trans-esoph. (non-Card.)								
	Musculo-skeletal (Conventional)								
	Musculo-skeletal (Superficial)								
	Intravascular								
	Other (Specify)		N						N
	Cardiac	Cardiac Adult							
Cardiac Pediatric									
Intravascular (Cardiac)									
Trans-esoph. (Cardiac)									
Intra-cardiac									
Other (Specify)									
Peripheral Vessel	Peripheral vessel								
	Other (Specify)								

N = new indication; P = previously cleared by FDA; E = added under this appendix

* Other modes include: 3-D Imaging;

Additional Comments: Other uses include: Prostate, Kidney, Uterus, Ovary

Prescription Use (Per 21 CFR 801.109)


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SIUI CTS-8800
Digital Ultrasound Imaging System


Diagnostic Ultrasound Indications for Use Form

3.5 Transducer Indications for Use Form Transducer: Phased Array P3F14G

Clinical Application		Mode of Operation							Other* (Specify)
General (Track 1 Only)	Specific (Tracks 1 & 3)	B	M	PWD	CWD	Color Doppler	Combined (Specify)		
Ophthalmic	Ophthalmic								
Fetal Imaging & Other	Fetal								
	Abdominal								
	Intra-operative (Specify)								
	Intra-operative (Neuro)								
	Laparoscopic								
	Pediatric								
	Small Organ (Specify)								
	Neonatal Cephalic								
	Adult Cephalic								
	Trans-rectal								
	Trans-vaginal								
	Trans-urethral								
	Trans-esoph. (non-Card.)								
	Musculo-skeletal (Conventional)								
	Musculo-skeletal (Superficial)								
	Intravascular								
	Other (Specify)								
Cardiac	Cardiac Adult	N	N	N		N			
	Cardiac Pediatric	N	N	N		N			
	Intravascular (Cardiac)								
	Trans-esoph. (Cardiac)								
	Intra-cardiac								
	Other (Specify)								
Peripheral Vessel	Peripheral vessel								
	Other (Specify)								

N = new indication; P = previously cleared by FDA; E = added under this appendix

Prescription Use (Per 21 CFR 801.109)


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